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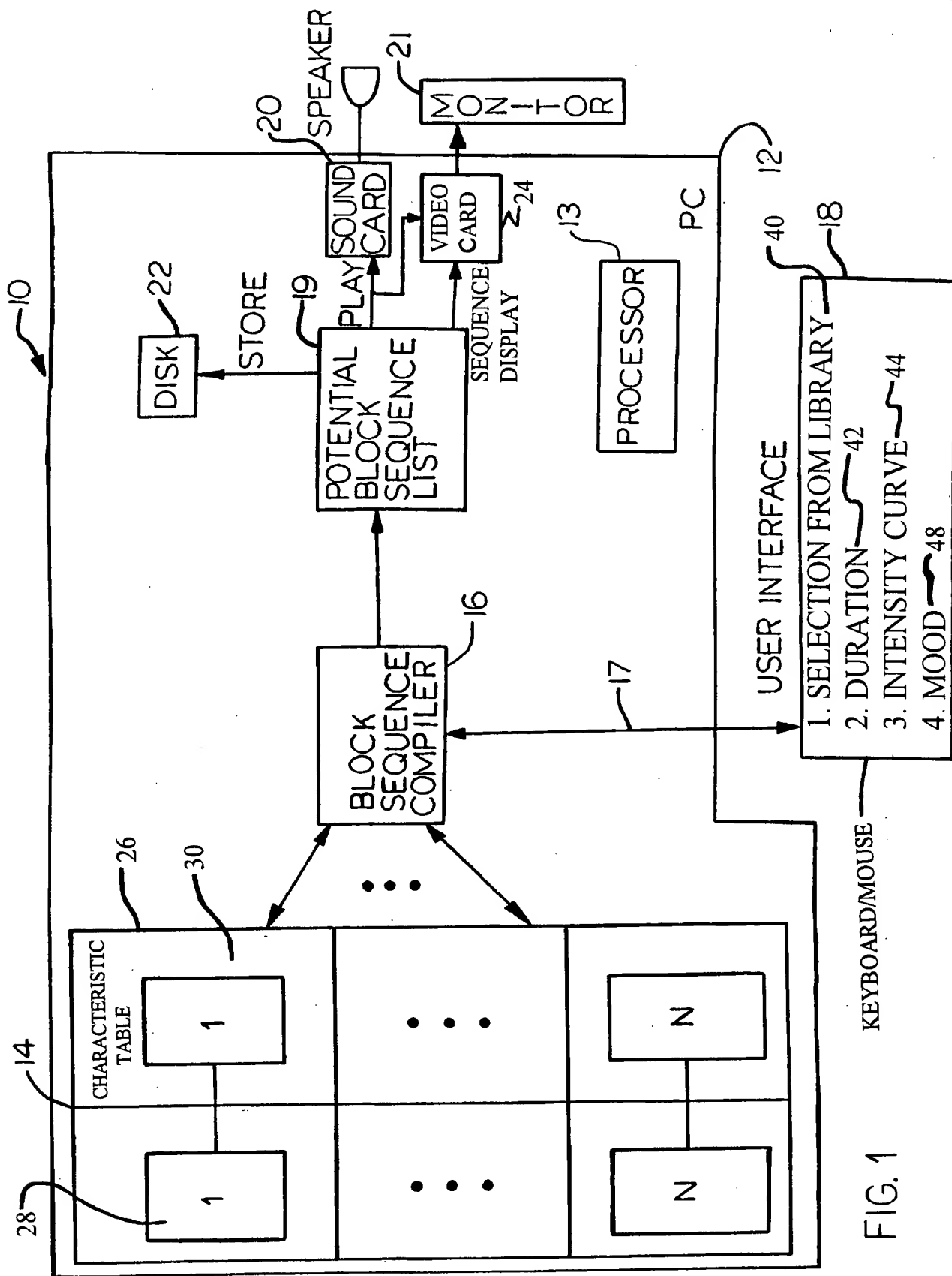


FIG. 1

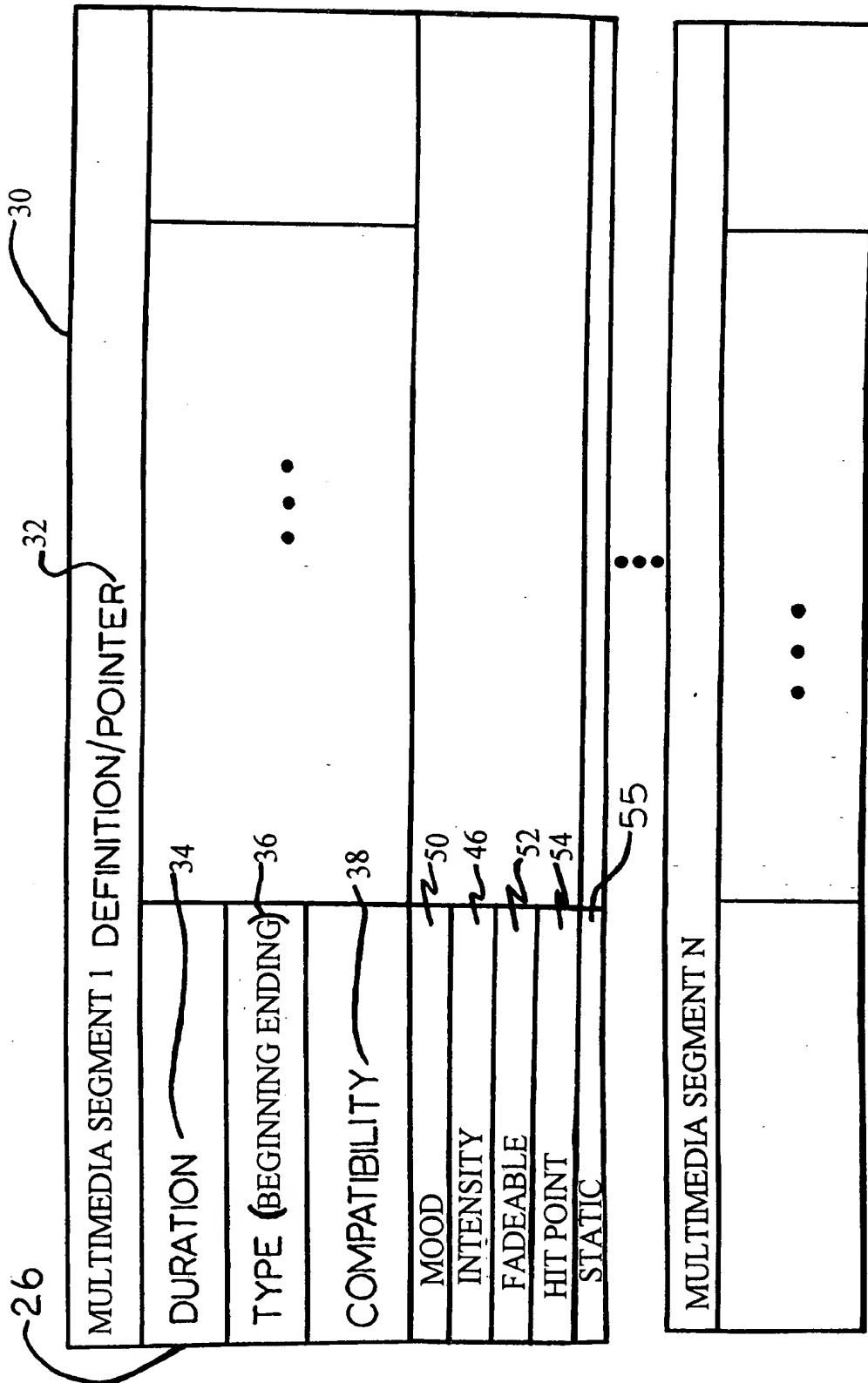


FIG. 2

APPROVED	G. FIG.	
BY	ASS	SUBCLASS
DRAFTSMAN		

Block Diagram

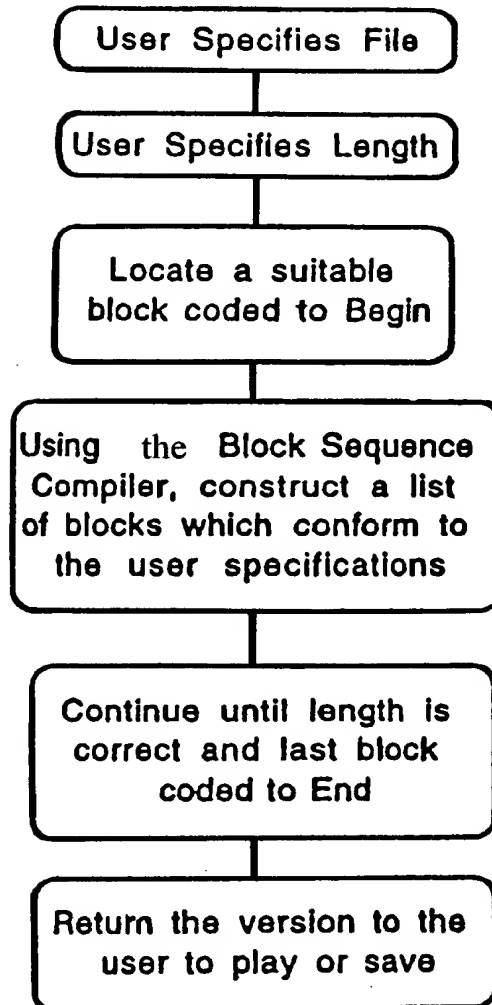
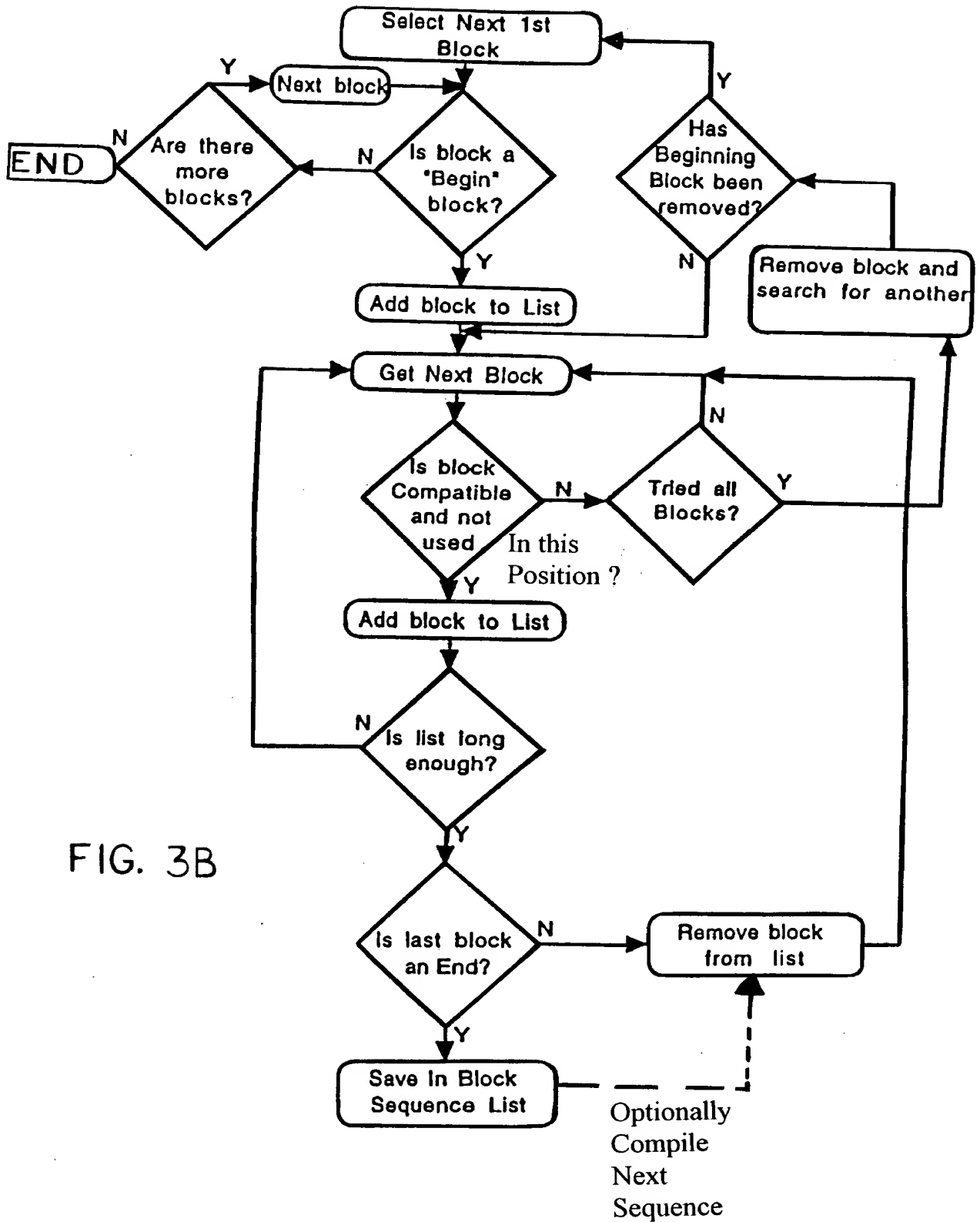


FIG. 3A



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

	A	B	C	D	E	F	G	H	I	J
DURATION ~ ³⁴	5	5	5	5	5	5	5	5	5	5
BEGINNING/ ENDING ~ ³⁶	B		B		E					E
COMPATIBILITY LIST ~ ³⁸	B	C	D	E	F	G	H	I	J	

FIG. 4

APPROVED	A.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

```

\ 0 1 2 3 4 5 6 7 \
A
length = 5
A B
length = 10
A B C D E F G
length = 30
A B C D E F G H
length = 35
A B C D E F G H
length = 35
A B C D E F G
length = 30
length = 35
** A B C D E F G J

A B C D E F G
length = 30
A B C D E F G
length = 30
A B C D E F G
length = 30
A B C D E F
length = 25
A B C D E F H
length = 30
A B C D E F H *
length = 30
length = 35
** A B C D E F H E

C
length = 5
** C D E F G H I J
length = 35

```

A is the first block considered and it is a beginning
 so it is put in slot 1
 B is considered next and it is checked for
 compatibility with A
 *
 slots continue to be filled until...
 the length is >= the desired length
 H is checked as an ending, it is not so it is removed
 I is tried and not compatible with G, so J is tried
 next
 *** J is compatible with G and it is an ending, so
 this sequence is returned **
 *
 A SEQUENCE IS RETURNED
 *
 to continue looking for the next combination, J is
 removed
 J is the last block so A is tried next...
 blocks A - G are tried (H was the first one tried in
 this slot) and none are compatible
 so G is removed from slot 6
 H is compatible with F, so it is put in slot 6
 I, J, A, B, C, D are all tried in slot 7 and either
 not compatible or not endings
 *** E is both compatible and an ending, so this
 sequence is returned **
 *
 PROCESS CONTINUES...
 *
 basic SEEDING is performed by putting another
 beginning block in the first slot
 *** and building a sequence from there. **

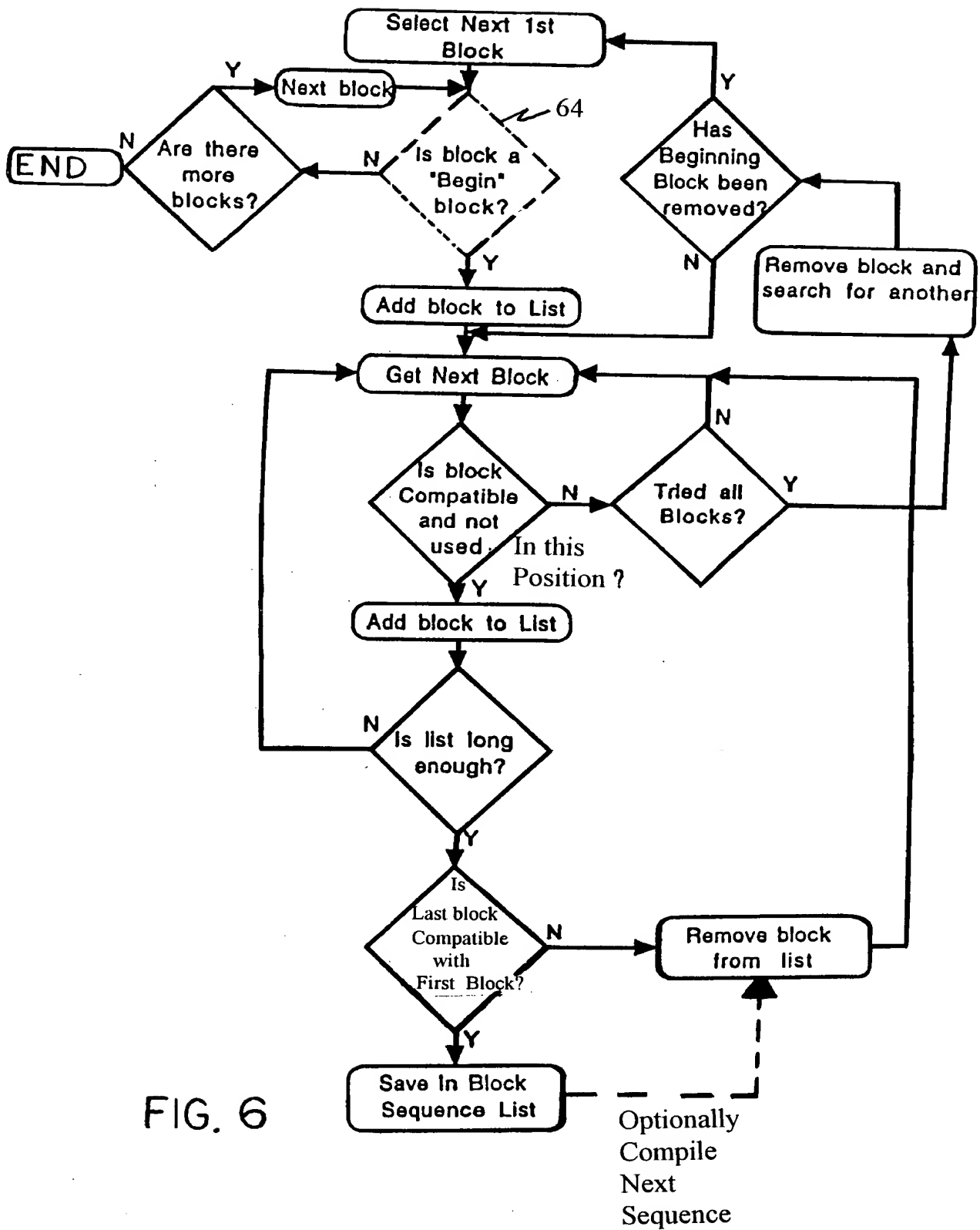


FIG. 6

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

0	1	2	3	4	5	6	7	
A								length = 5
A	B							length = 10

FIG. 7

A	B	C	D	E	F	G		length = 30
A	B	C	D	E	F	G	H	length = 35
A	B	C	D	E	F	G	H	length = 35
A	B	C	D	E	F	G		length = 30
A	B	C	D	E	F	G	J	length = 35

A	B	C	D	E	F	G	H	E	length = 35
---	---	---	---	---	---	---	---	---	-------------

A is the first block considered and it is a beginning so it is put in slot 1

B is considered next and it is checked for compatibility with A

* slots continue to be filled until... the length is >= the desired length

H is checked for compatibility with the first block (A), it is not so it is removed

I is tried and not compatible with G, so J is tried next

*** J is compatible with G and the first block (A), so this sequence is returned **

A SEQUENCE IS RETURNED

to continue looking for the next combination, J is removed

J is the last block so A is tried next...

blocks A - G are tried (H was the first one tried in this slot) and none are compatible

so G is removed from slot 6

H is compatible with F, so it is put in slot 6

I, J, A, B, C, D are all tried in slot 7 and either not compatible or not compatible with the first block (A)

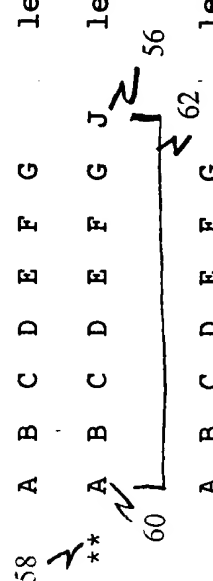
*** E is both compatible with H and the first block (A), so this sequence is returned **

* OR ALTERNATIVELY WITH STEP 44 BYPASSED... *

basic SEEDING is performed by putting another beginning block in the first slot (Note C is not a beginning block)

*** and building a sequence from there. **

Note J is compatible with I and C is compatible to follow J



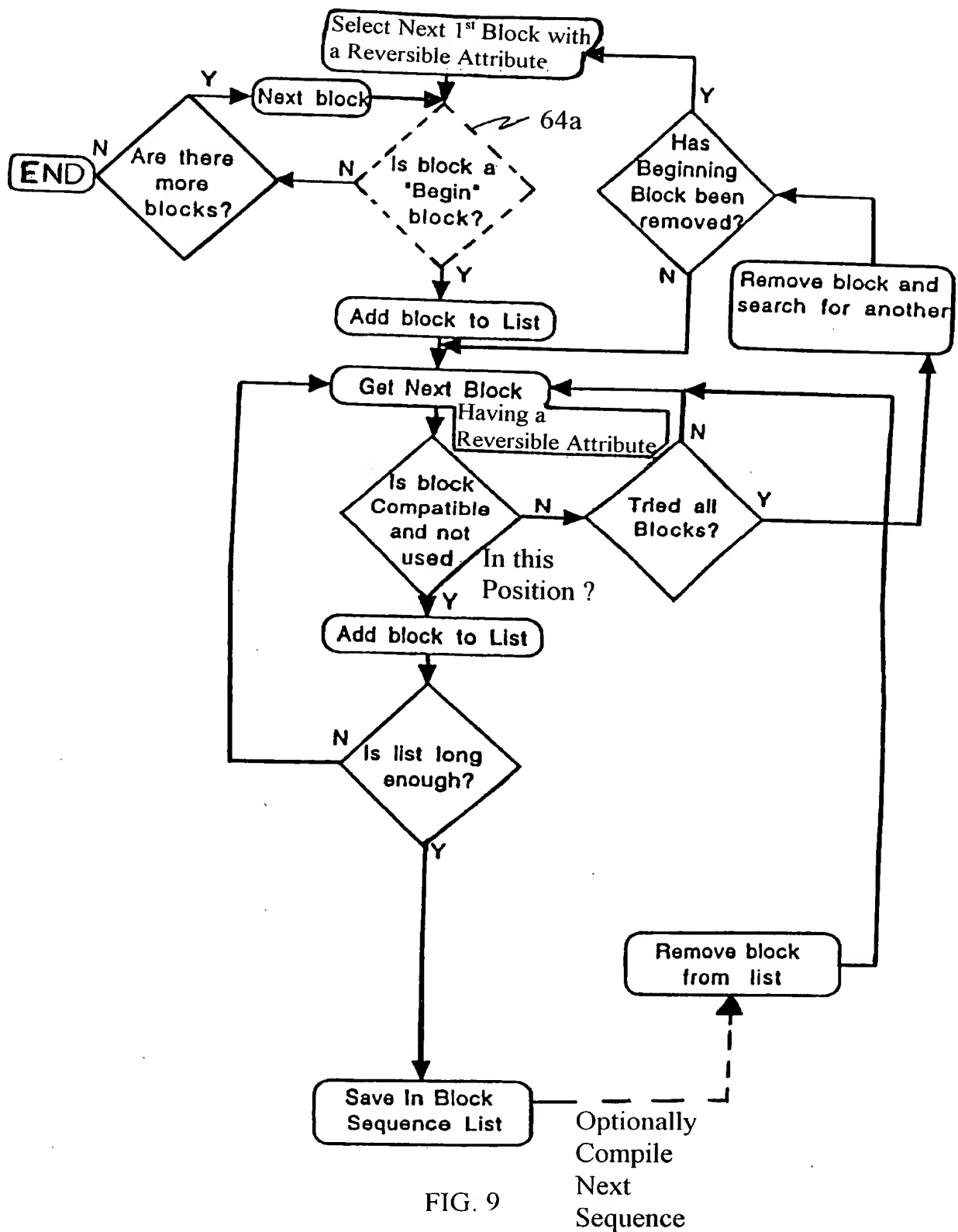
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

30

A B C D E F G H I J

DURATION ³⁴	5	5	5	5	5	5	5	5	5	5	5
BEGINNING/ ENDING ³⁶	B				E						
COMPATIBILITY LIST ³⁸	B	C	D	E	A	C	D	E	H	I	J

FIG. 8



APPROVED	C. G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

30

	A	B	C	D	E	F	G	H	I	J
DURATION ~34	5	5	5	5	5	5	5	5	5	5
BEGINNING/ ENDING ~36	B		B		E					E
COMPATIBILITY LIST ~38	B	C	D	C	D	E	F	E	I	J
REVERSIBLE ~66			X	X	X	X				

FIG. 10

FIG. 11

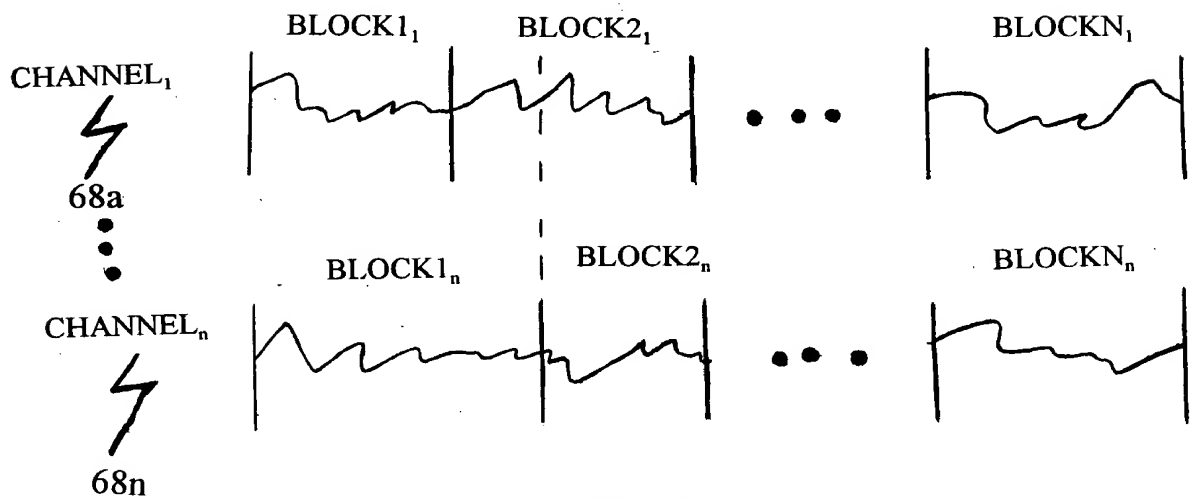
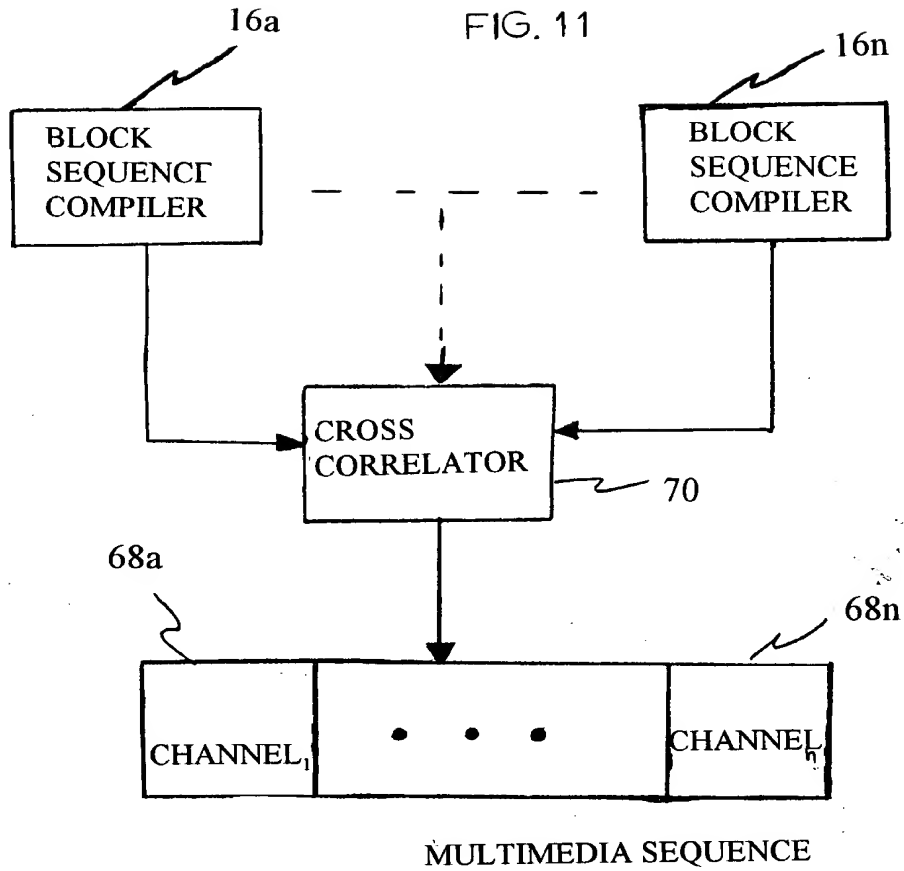


FIG. 12